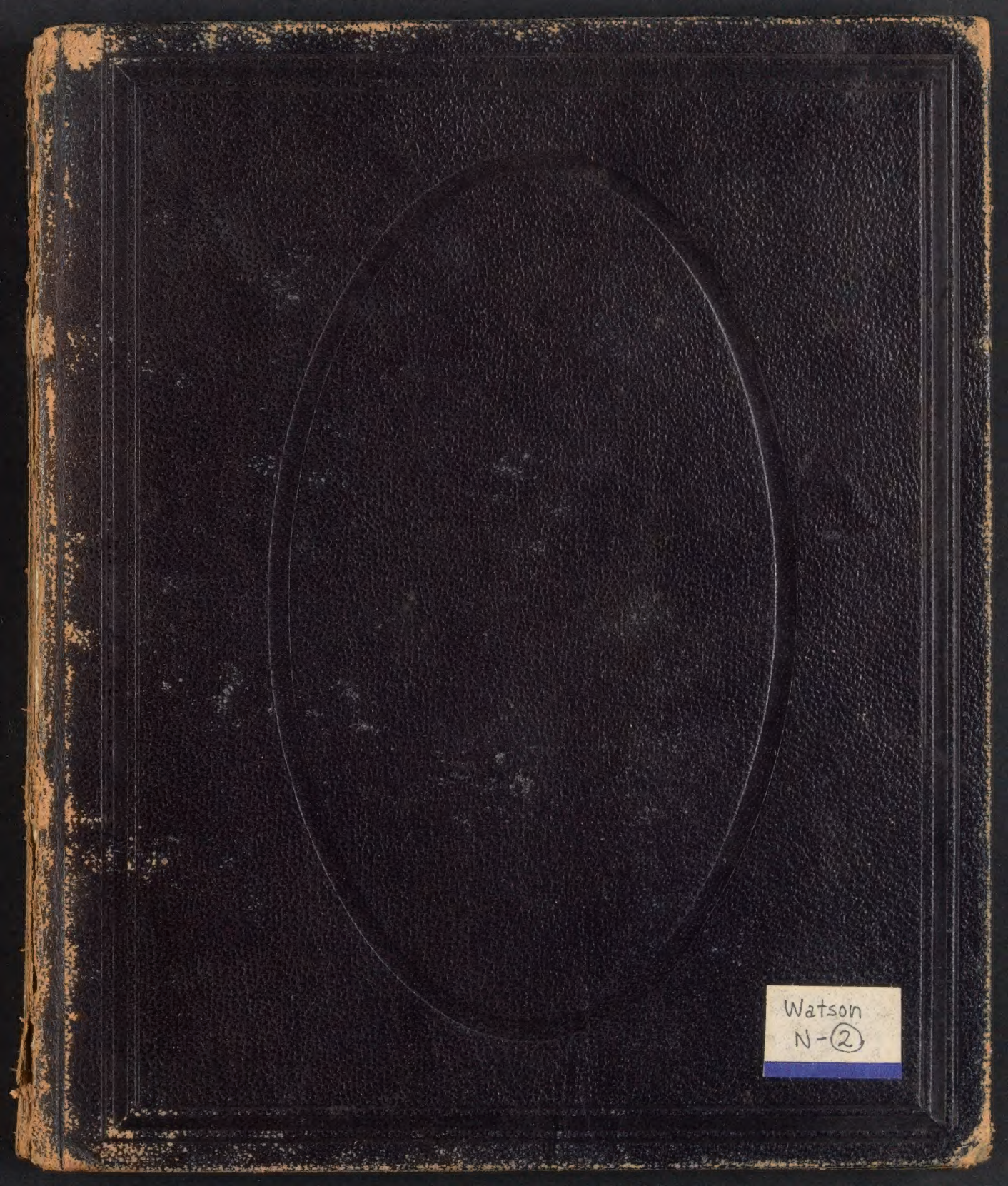

Watson
N-(2)

V317.

FRANCIS & LOUTREL,
STATIONERS,
Steam Job Printers,
AND
BOOK BINDERS,
45 MAIDEN LANE, N. Y.

Watson N-2

Botanical Collection

of 1869 – Utah Territory.

Sereno Watson. U.S.G.S.

May 13th — Plains east of Cheyenne

1.– Astragalus × 1

May 15th – Wahsatch Summit.

1. Astragalus × 6
2. Fungus 1

May 17th – Salt Lake City – Canon & spurs east.

1.– Umbellate – yellow × 2
2.– Phacelia A. 2
3.– Polemoniaceae Col. gracilis 2
4.– Boraginaceae – Shrub, with tinge of blue – A. 7
5.– Lithospermum – A. 1
6.– Ranunculus Cymbalaria – A. 2
7.– Veronica 2
8.– Phlox 1
9.– Lepidium A. 1
10.– ~~Lepidium~~ Viola 1
11.– Thlaspi A. × 3
12.– ~~Draba~~ – yellow × 6
13.– Radiate – Balsamorhiza sagittata A 2
14.– ~~Astragalus~~ – pink – ~~myriadenus~~ (Purshii ?) A. 4
15.– Boraginaceae 3
16.– ~~Malvastrum coccineum~~ × 2
17.– Lupinus 1
18.– ~~Cymopterus~~ – yellow – A. 8
19.– Leguminosa × 2
20.– Galium 3
21.– Echinospermum 1
22.– Eriogonum 2

23.-	Paeonia tridentata — very fragrant		3	M
24.-	Astragalus — purple — decompressed		4	1
25.-	Penstemon — 2°		2	2
26.-	Comandra		1	3
27.-	Brongniartia	×	6	4
28.-	Quercus — A.	×	2	5
29.-	Viola A.		1	6
30.-	Ligularia Calais nutans		2	7
31.-	Phacelia		3	8
32.-	Senecio hyperborea		3	9
33.-	Liliacea — A.	×	10	10
34.-	Amelanchier		1	11
35.-	Berberis		4	12
36.-	Claytonia		12	13
37.-	— myrainites		4	14
38.-	Fritillaria		2	15
39-	Acer — A.		5	16
40-	Moss		2	17
41-	Carex	×	5	18
42-	Zygadenus Venenosus	×	2	19
43.-	Delphinium Menziesii — A.		2	20
44.-	Vicia	×	4	21
45.-	Moss		2	22
46.-	Fritillaria		1	23
47.-	Lithophragma		2	24
48.-	Rhus — A		2	25
49.-	Grass		1	26
50.-	Silene	×	2	27
51.-	Ligularia Macrorhynchus grandiflorus		1	28

May 16th – Salt Lake City. – Spur north + lower City Creek Canon.

1. – Zauschneria — 3
2. – Onagraceae — 5
3. – Oenothera albicaulis — 1
4. – Boraginaceae – Lithospermum — 2
5. – Phacelia – White — 1
6. – Gayophytum — 1
7. – Collomia – yellow — 1 ×
8. – Oenothera caespitosa — 2
9. – Gilia – I" — 1
10. – Hedysarum — 4
11. – Astragalus — 2
12. – Umbelliferae — 1
13. – Eriogonum – White — 1
14. – Umbellularia — 2
15. – Antennaria — 3 ×
16. – Leguminosae – Lupinus — 4
17. – Chenopodiaceae — 2
18. – Quercus — 4
19. – Cruciferae — 1
20. – Ribes — 1
21. – Vicia — 1 ×
22. – Crataegus — 1
23. – Streptanthera — 1
24. – Rosaceae — 1
25. – Cornus — 2
26. Castilleja — 4
27. – Hymenopappus — 1
28. Rhus Trilobata – 1st Flowers — 2 ×

2d – 11

May 19th - Salt Lake City - Up City creek canon, 4 miles, to Twin Falls.

1 - Hyperanomia	Hyperanomia fraseri	×	1
2 - Lipulara	Neoneptis pacifica		2
3 - Viola			5
4 - [illegible]			1
5 - Rana			2
6 - [illegible]			2
7 - [illegible]			1
8 - [illegible]			3
10 - [illegible]			2
9 - Pyrrhus		×	4
11 - Arnicifer			1
12 - Polevitella			3
13 - Rapiata		×	2
14 - Lithophragma			3
15 - Hesperia			5
16 - Umbellata - gilia		×	2
17 - [illegible]		×	1
18 - Analis			1
19 - Conjugalis		×	
20 - Rivalis		×	7
21 - Octava		×	4
22 - [illegible]			1
23 - [illegible]			2
24 - [illegible]			3
25 - [illegible]		×	6
26 - [illegible]			2
[illegible]		×	1
[illegible]			1
[illegible]			1

9

May 20th – Falls Lake City – Lily Creek Station.

May 25th – Salt Lake City – Mapped with Lily Creek Station.

Antelope Island — mostly, clastics of gneissic rocks = gneiss, conglomerate, quartzite, mica slate, &c. — The main peak is limestone in a thin stratum (10 feet or less), metamorphic & slaty on each side, strike N 30° W magnetic, dip nearly vertical (ranging 5° each way.) The gneissic strata on each side are nearly conformable. From the main ridge on little points of the peaks an apron extends westerly which, beyond a prominent stratum of mica slate belonging to the main ridge, is composed mostly of a gneissic like rock with apparently a double strike & dip — one parallel with that of the main axis (N 30° W & vertical) — the other at right angles (S 50° W, dip 40° S)

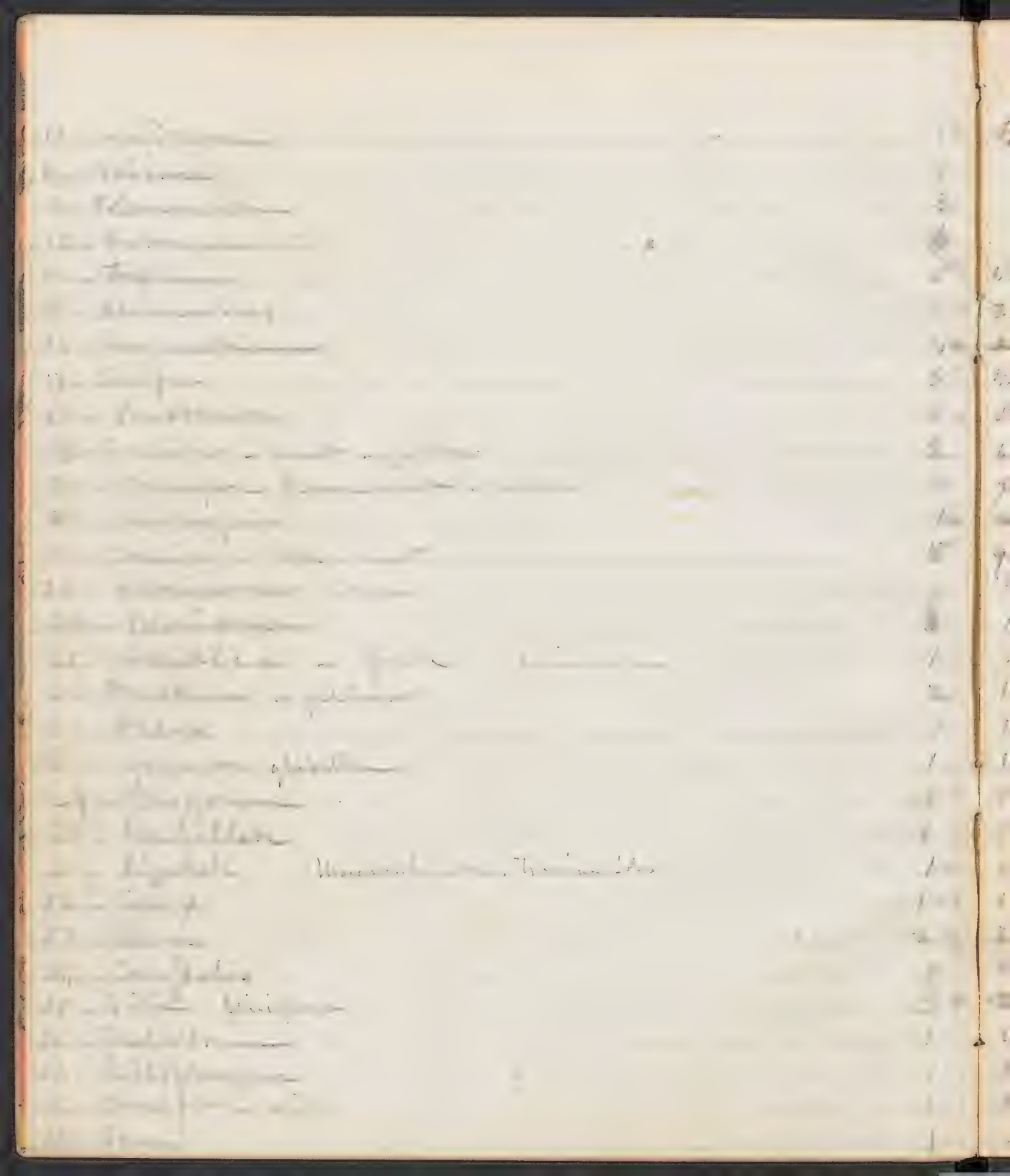
Stansbury Island — mostly limestone, with prominent strata of bituminous quartzite. Strata not accurately determined — some of the lower limestone strata on east side run from N to N 5° W — a quartzite in the south end of the island range N 11° E. The highest peak is limestone & the mountain ridge forms an anticlinal axis, dip about 30° in each direction. The limestone is generally fossiliferous, often dry in consistency &c. The quartzite varies from a compact rock to granular. Common. The upper limestone line is marked by an abrupt terrace on the east.

Carrington Island — mostly slate, with quartzite & conglomerate — strike N 25° E, dip 30° W

Black Rock Ridge — limestone

Point Knoll Point — limestone — strike N 50° W, dip 15° E

Adams Point — mostly limestone peak a little ferruginous quartzite running southerly — slaty, slate. Dip 25° E 15°

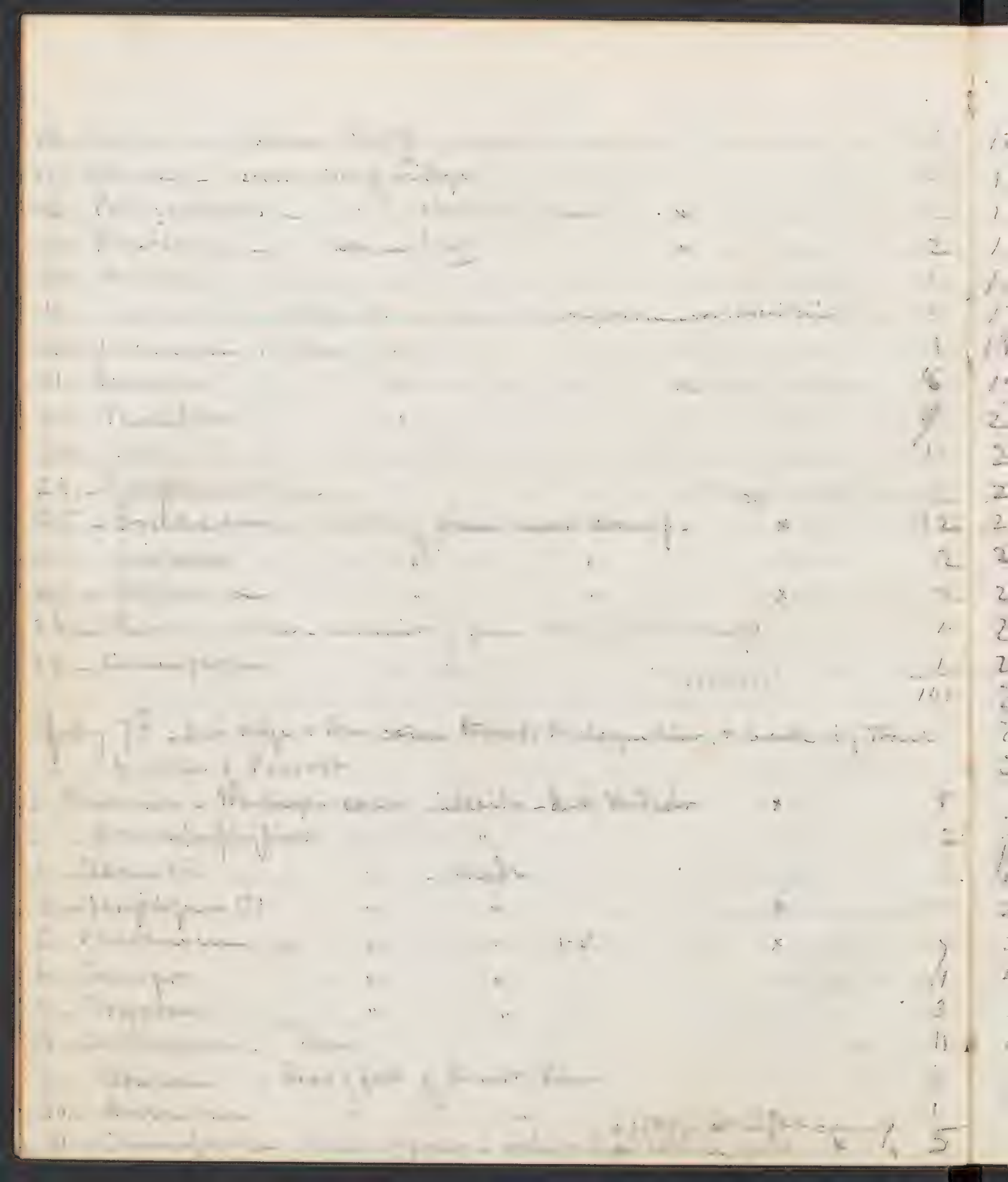


June 29th. – Parker's Pond – To peaks & canoe north of
1 – Helianthella
2. – Cinquefoil
3. – dubium
4. – Ligusticum
5. – Aster
6. – Agoseris
7. – Potentilla
8. – Phlox
9. – Umbellata
10. – Ranunculus
11. –
12. – Potentilla
13. – Arenaria
14. – Aster
15. – Compositae
16. – Aster
17. – Thermopsis
18. – Castilleja
19. – Erigeron
20. –
21. – Apocynaceae
22. – Trollius
23. – Delphinium
24. –
25. –
26. –
27. –
28. –
29. –

12. - Lotus - Commun 1
13. - Trifolium - " x 1/4
14. - Hypericum " 1/4
15. - Rubus " 1
(2+3+10) 21

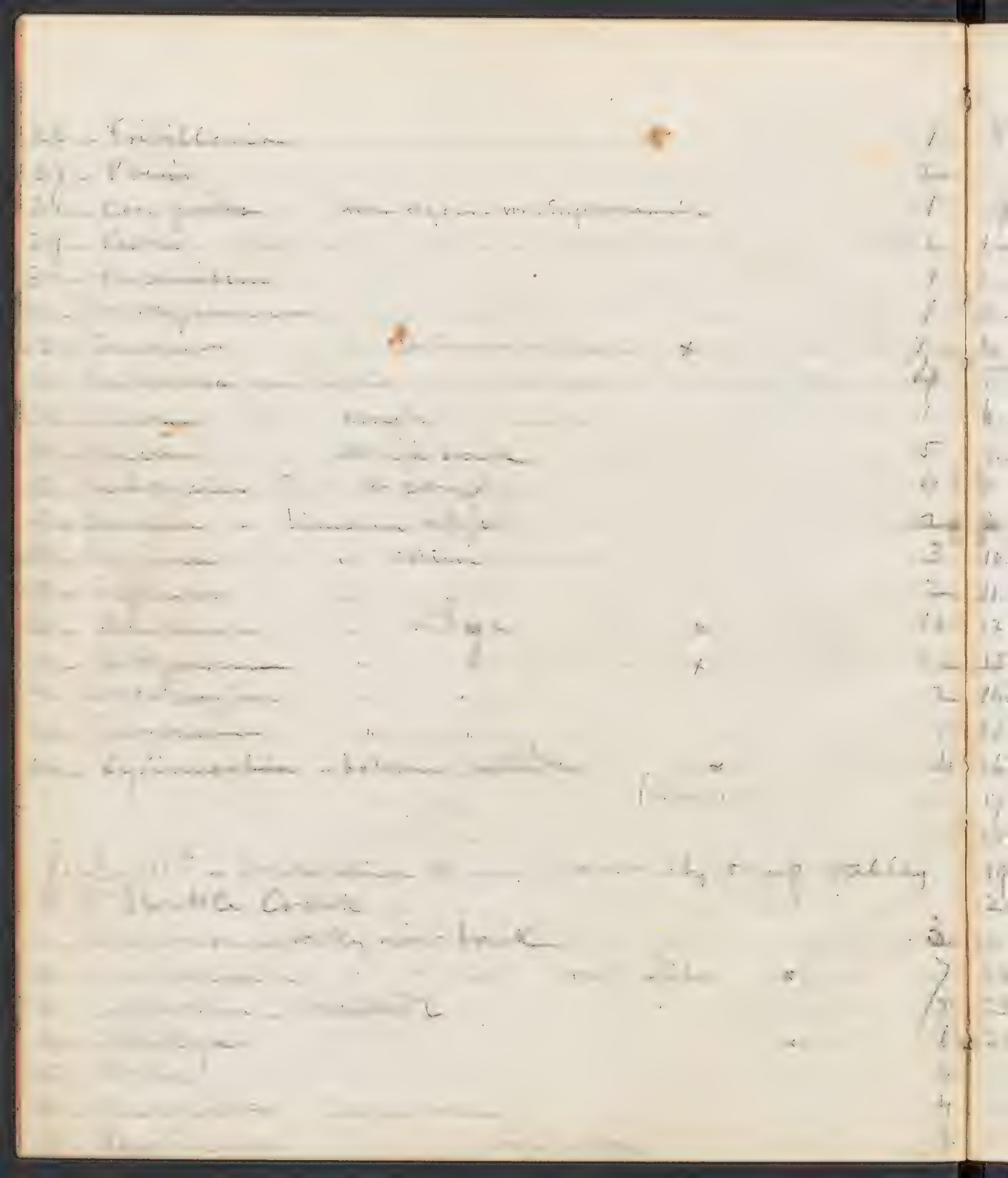
Pelouse 3E - Roche's Cotton.

1 - Agrostis - indice coton. 4
2. - Cerastium - bonne pousse à aide coton 6
3. - Thymus " " " x 5
4. - Aegopodium " " x 3
5. - Potentilla aide coton 1
6. - Plantago " 1
7. - Ranunculus " 1
8. - Cardamine " 4
9. - Potentilla " 1
10 - Sedum " Semperv. 2
11 - Leontodon " " x 10
12. - Silene 2
13. - Juniperus Virginiana " 1
14. - Veronica " 1
15. - Hieracium " 3
16. - Thlaspi x 11
17. - Erigeron " 1
18. - Cerastium " 4
19. - Streptopus " 8
20. - Euphorbia " 2
21. - Arctium (indicio gramíneas + 26) 2
22. - Linum (?) " x 1
23. - Pentstemon 1



12.- [illegible] - bank [illegible]
13.- [illegible]
14.- [illegible]
15.- [illegible]
16.- [illegible]
17.- [illegible]
18.- [illegible]
19.- [illegible]
20.- [illegible]
21.- [illegible]
22.- [illegible]
23.- [illegible]
24.- [illegible]
25.- [illegible]
26.- [illegible]
27.- [illegible]
28.- [illegible]
29.- [illegible]
30.- [illegible]

July 6 - [illegible]
1.- [illegible]
2.- [illegible]
3.- [illegible]
4.- [illegible]
5.- [illegible]
6.- [illegible]
7.- [illegible]
8.- [illegible]



July 26th — [illegible] to camp [illegible]

1.– [illegible] — [illegible] camp 1

2 – Aster — " [illegible] 3.

3.– Arnica — [illegible] 11

4 Sidalcea " " 5.

5 Eriogonum " — Silver Creek Canon 1

6 Helianthus — Wild oats " 1

7 Polemonium — [illegible] " 1

8 Cirsium — wild [illegible] " 2

9 Ranunculus — creek " 6

10 Eriogonum — hillside " 6

11 Senecio — [illegible] " 6

12 — Compositae " " [illegible] 3

13 — Hieracium " " 2

14 — Gaillardia Yellowish — Weber Valley 6

15 — Cirsium Canon 3

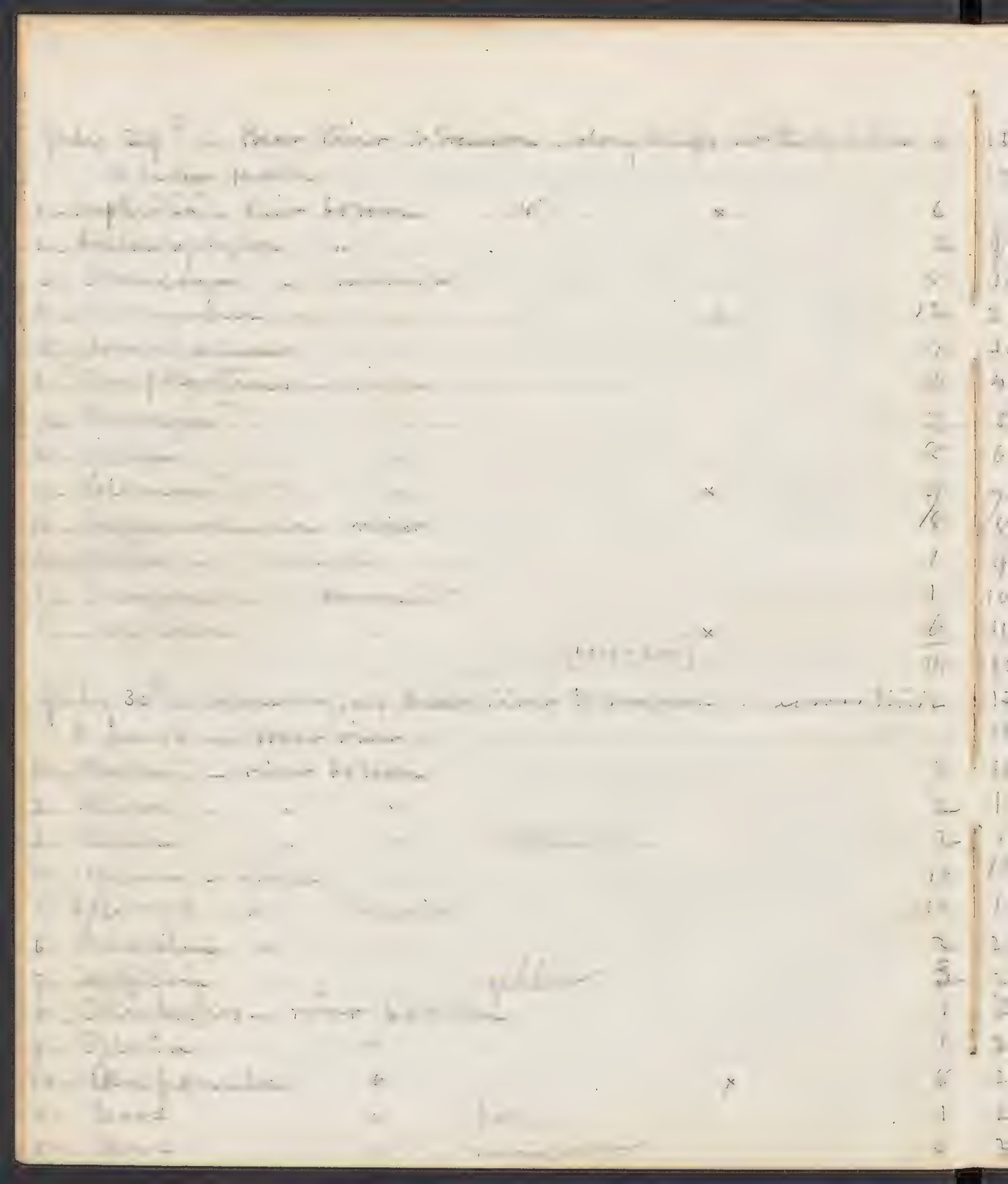
16 — Eriogonum " [illegible] 2

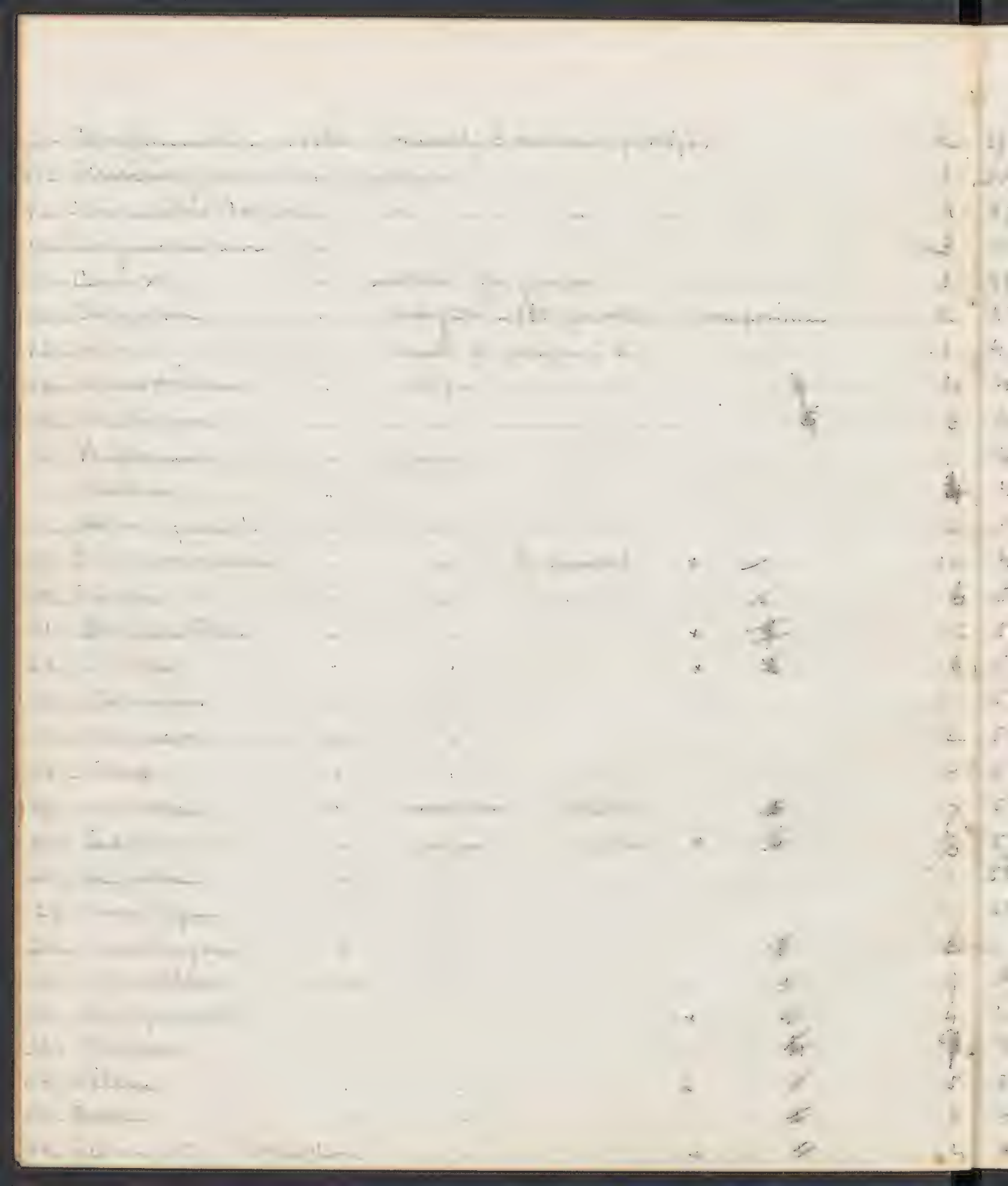
17 — Salvia — " [illegible] 2

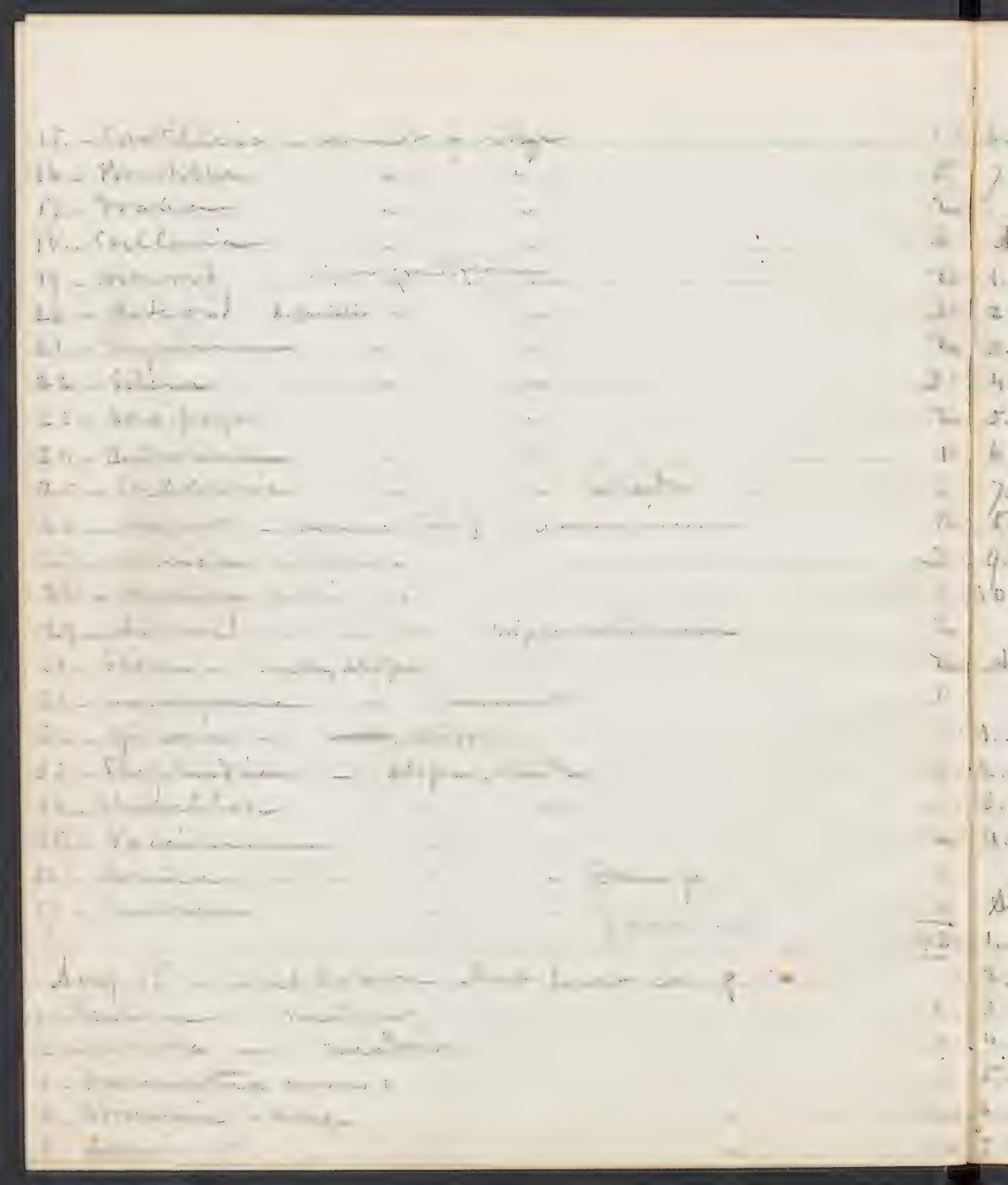
18 — Delphinium " [illegible] 3

19 — Delphinium " [illegible] 1

5.







Aug. 25th - Up American Fork [illegible]

1.- [illegible] - [illegible]

(7913-217)

Aug. 26th - To [illegible] up ridge at head of south fork & [illegible] [illegible] to [illegible] & [illegible]

1.- Pentremites - limestone [illegible]

2.- Valcrocrinus " "

3. 4.- Fenestella - " " green & white [illegible]

Aug. 27th - To mouth of canon & up cliffs north side [illegible]

1.- Solenopora - upper canon both sides

2.- Nyctopora "

3.- Archaeocrinus canon & [illegible]

4.- Valcrocrinus

5. Hydnoceras - [illegible]

6 Dimorphosis - rocky hillside - limestone

7.- Fenestella, a Subramosa

8.- Euspondylus [illegible] " Brickellia microphylla

9.- Quemanes

10 [illegible]

11.- Polycamara - creek bank

Aug. 28th - To summit & cliffs south of canon, down [illegible] gulch & back to canon.

1. [illegible] - ridge

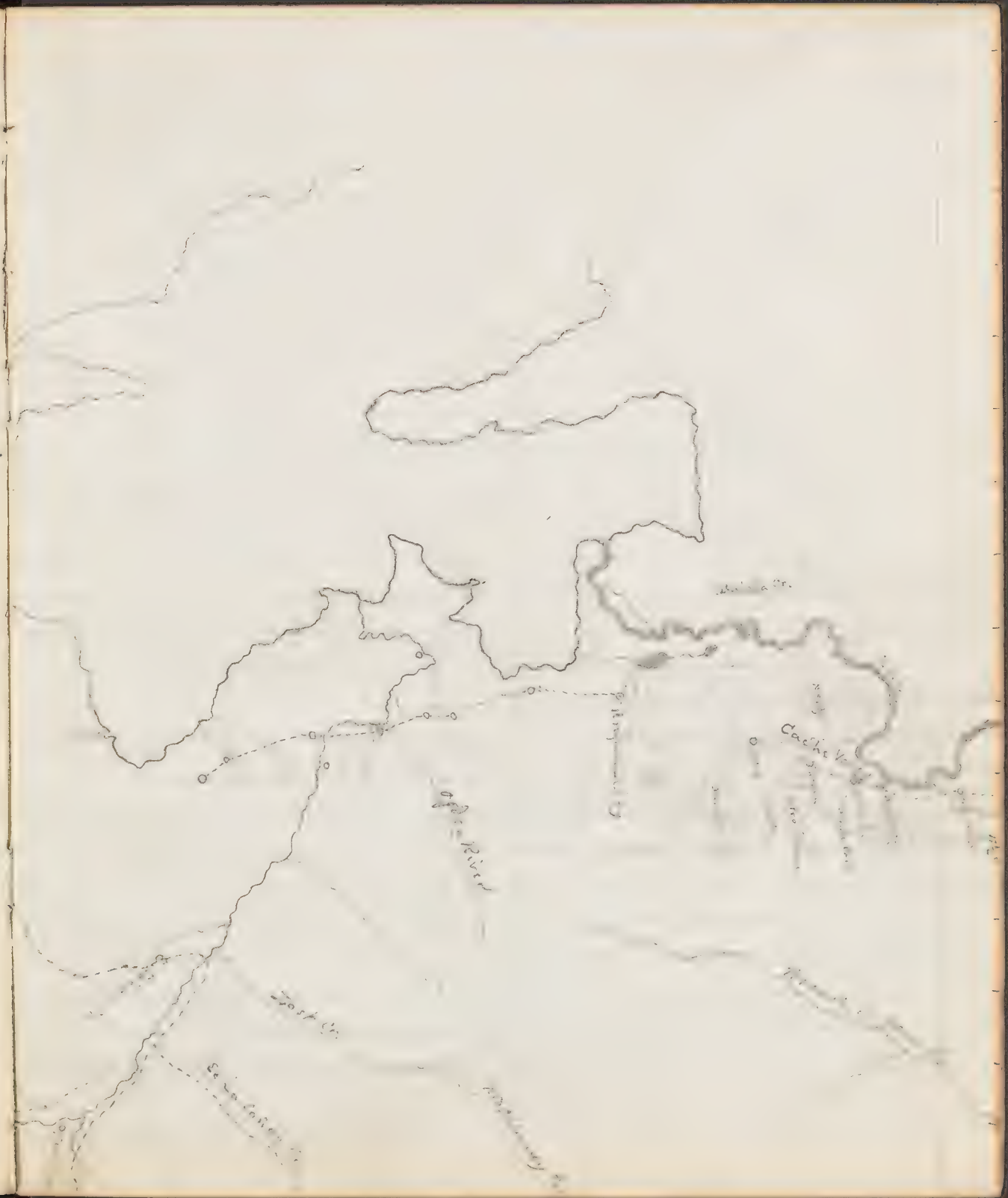
2.- Dimorphosis [illegible]

3. [illegible]

4. [illegible]

5.- Archaeocrinus - [illegible] wood on ridge A. steraus

6.- [illegible] - [illegible]



	Coniferoïdées	469	1161
prom	Composées tubuliflores	1[illegible]	2162
	Rubiacées	24	561
	[illegible]	112	1493
	Térébinthacées	82	394
	Cupulifères	[illegible]	401
	Algues	4	
	Salicinées	31	
	Conifères	10	101
	Cucurbitacées	[illegible]	42
	Polygonées	11	125
	[illegible]	43	627
	Chenopodées	32	311
	Amentacées	4	[illegible]
	Hydrophyllacées	25	292
	[illegible]	[illegible]	[illegible]
	Crassulacées		[illegible]
	Gélinées		
	Euphorbiacées		
	[illegible]		

x – C. major

Senecio vor: angustifolia

July 20th, 1869 [illegible] 1

Sept. 3rd, " [illegible] 3

July 20th, 1869 [illegible] 2

C. acuminata, Nutt,

May 27th, 1869 [illegible] 1

~~Salsola~~ + June 12th "

" 17th, "

July 3rd "

June 3rd, 1869 [illegible] 5

Ivesia [illegible] gracilis, Nutt

July 6th, 1869 [illegible]

Macronychia [illegible] tridentata, Torr,

[illegible] 1869

May 27th, 1869

June 6th "

" 13th "

July 20th " [illegible]

Aug. 4th, " Pass Peak

" 22 "

[illegible] "

" 27 " [illegible]

[illegible] 1869

[illegible]

Senecio [illegible]

June 4th, 1869

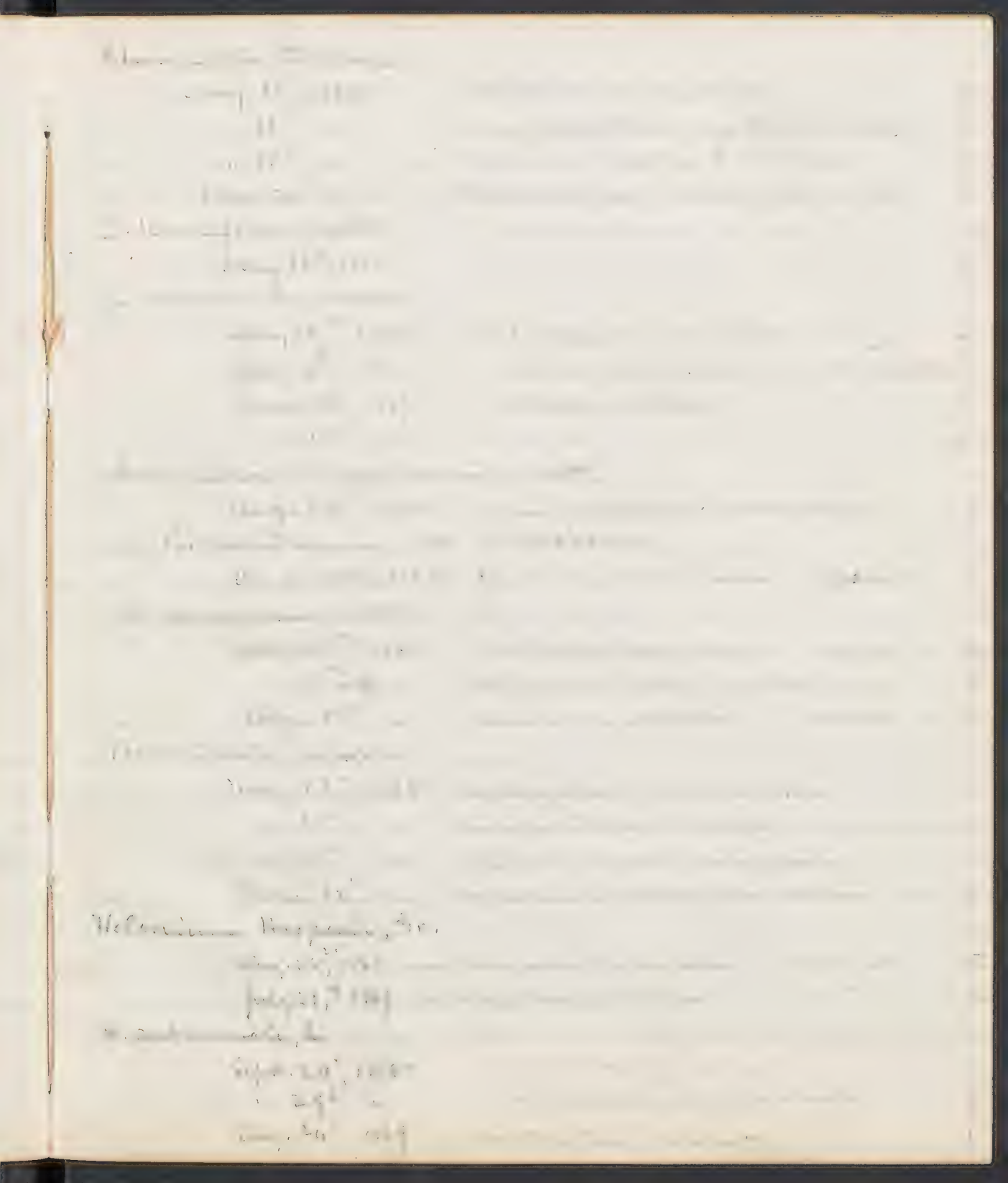
" 21 "

Sept. 29th, " [illegible]

May 31st, 1869 [illegible] 1

June 25th, " [illegible] 1

July 1st, " [illegible] 2

Aug. 4th, " [illegible] 1

Isoetes pulvinata L.

Camp Ice. Sinclair Lucas ... Elizabeth Lake (Wash.)

June 24[19], 1[8]8[7]

July 11[6] "

" 24[14] "

" 30[24] "

Aug. 2[29]

" 27[14] "

Sept. 10[20] "

Van. [illegible]

June 23[27], 1869

July 3[2], "

Montezuma [illegible], Ariz.

May 14[22], 1869

" 31[15], 1869

I. occidentalis [illegible]

[illegible]

June 2[4], 1869

" 14[4], 1869

I. Engelmanni [illegible], Ariz.

Camp 12

Aug. 20, 1[8]69

" 21[2], 1869

Sept. 4[18] "

Oct 2[5] "

I. tricuspidata, var.

Sept. 10, 1[8]69

" 2[1], "

" 1[7], 1[8]69

long acuminate - stamens ½ - style short, exserted - capsule obtuse - cells 2-ovuled
leaves 1-2" wide - ⅔ stem. - involucre few flowered - rays 4-6½" long or less
arrival 3-4, radical -

4" - stamens ½-⅔ - style long, capitate, stigma - capsule obtuse - 2 ovuled
nearly equally scapose, 1" wide - involucre many flowered (20-25), rays 6-7" long -

stigma capitate, slightly lobed - capsule obtuse, cells 1-ovuled

rays 25-30, 6-8" long. fil. all adnate ¼

rays 12, 4-5" long - outer fil. free, inner slightly attached at base

June 6th – Antelope Island – Lake Shore

1 – Agoseris 1
2 – Erigeron 3
3 – Grass 1
4 – Phlox 2
5 – Oxytheca 2 – thick
6 – Eriogonum × 6 – Spring mound
1-17

June 7th – Source – To Coon Peak

1 – Spiranthes – 3 white
2 – Orchis (?) × 6 In bottom field – in advance of main crop.
3 – Gymnosteris 2 white
4 – Phlox 1
5 – Draba 1
6 – Sisyrinchium 1
7 – Eriogonum 1
8 – Lupinus 1
9 – Stipa 2
10 – Epilobium 1
11 – Liliaceae × 6
12 – Grass 3
13 – Fern 1
14 – Orthocarpus 11
15 – Mimulus 6
16 – Thorn 1
2-47

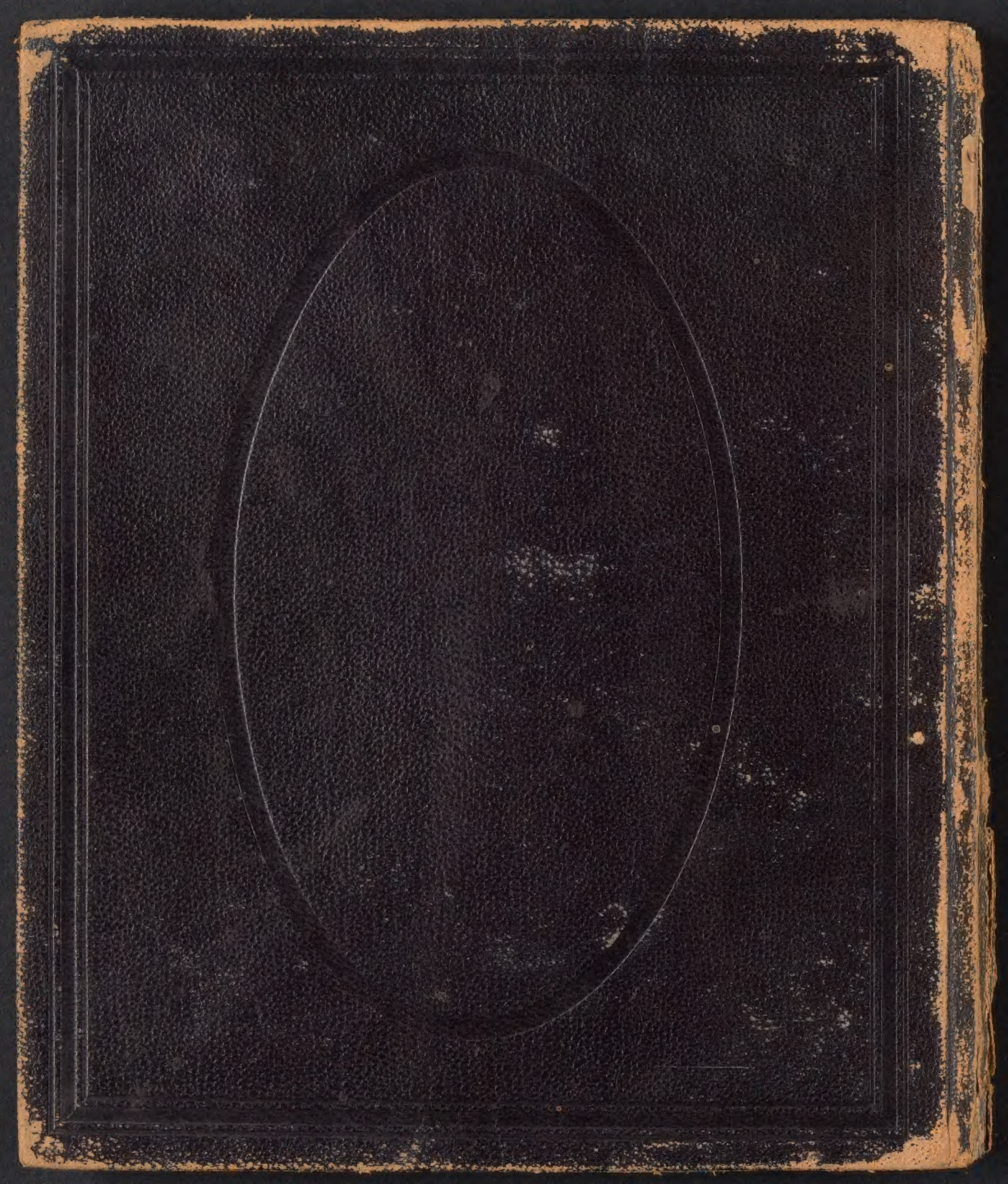
172 202 60 172 16 044 22,704

2/4

10th – Black Rock Station – up Canon

1 – Epilobium 4
2 – Geranium 2 White
3 – Eriogonum 2
4 – Lupinus 1
5 – Erigeron 3 – in thick patches –
10

11th – Black Rock Station – Near Pond

1 – Compositae 2
2 – Grass-like 1
3 – Orthocarpus 2 – White
4 – Eriogonum 4
5 – Polemoniaceae 1
6 – Solanum 1

7 – Grass – bunch grass
8 – Orthocarpus, yellow – 1 –
20